☐ 1: Q04791. FATTY ACYL-COA HY...[gi:730714]

NEW Links

LOCUS SASB_ANAPL 557 aa linear VRT 30-MAY-2000
DEFINITION FATTY ACYL-COA HYDROLASE PRECURSOR, MEDIUM CHAIN (THIOESTERASE B).
ACCESSION Q04791
VERSION Q04791 GI:730714
DBSOURCE swissprot: locus SASB_ANAPL, accession Q04791;
class: standard.
created: Feb 1, 1995.
sequence updated: Feb 1, 1995.
annotation updated: May 30, 2000.
xrefs: gi: 213100, gi: 213101
xrefs (non-sequence databases): HSSP P21836, PFAM PF00135, PROSITE PS00122, PROSITE PS00941
KEYWORDS Fatty acid biosynthesis; Hydrolase; Signal.
SOURCE Anas platyrhynchos.
ORGANISM Anas platyrhynchos
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Anas.
REFERENCE 1 (residues 1 to 557)
AUTHORS Hwang,C.S. and Kolattukudy,P.E.
TITLE Molecular cloning and sequencing of thioesterase B cDNA and stimulation of expression of the thioesterase B gene associated with hormonal induction of peroxisome proliferation
JOURNAL J. Biol. Chem. 268 (19), 14278-14284 (1993)
MEDLINE 93300823
PUBMED 8314791
REMARK SEQUENCE FROM N.A., AND SEQUENCE OF 26-65.
TISSUE=UROPYGIAL GLAND
COMMENT ----------
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute.
The original entry is available from http://www.expasy.ch/sprot and http://www.ebi.ac.uk/sprot
----------.
[FUNCTION] FATTY ACID BIOSYNTHESIS CHAIN TERMINATION AND RELEASE OF THE FREE FATTY ACID PRODUCT IS ACHIEVED BY HYDROLYSIS OF THE THIO ESTER BY A THIOESTERASE. THIS THIOESTERASE MAY BE ASSOCIATED WITH PEROXISOME PROLIFERATION AND MAY PLAY A ROLE IN THE PRODUCTION OF 3-HYDROXY FATTY ACID DIESTER PHEROMONES.
[CATALYTIC ACTIVITY] OLEOYL-[ACYL-CARRIER PROTEIN] + H(2)O = ACYL-CARRIER PROTEIN + OLEATE.
[TISSUE SPECIFICITY] HIGHEST LEVELS IN UROPYGIAL GLAND, MUCH LOWER IN LIVER AND KIDNEY.
[SIMILARITY] BELONGS TO THE TYPE-B CARBOXYLESTERASE/LIPASE FAMILY.
FEATURES Location/Qualifiers
source 1..557
/organism="Anas platyrhynchos"
/db_xref="taxon:8839"

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  ORGANISM  Anas platyrhynchos
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  MEDLINE   93300823
   PUBMED   8314791
  REMARK    SEQUENCE FROM N.A., AND SEQUENCE OF 26-65.
            TISSUE=UROPYGIAL GLAND
COMMENT     ---------------------------------------------------------------------
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            ---------------------------------------------------------------------.
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FEATURES             Location/Qualifiers
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                     /organism="Anas platyrhynchos"
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Revised: July 5, 2002.